

Clinician Fact Sheet: Antivirals for Influenza 2008-2009

Oseltamivir or Zanamivir can be used for treatment and chemoprophylaxis

- Antivirals shorten the course of illness when given within the first 1-2 days of influenza symptoms
- Avoid antivirals in pregnant women unless benefit outweighs risk
- This season the antiviral medicines amantadine and rimantadine are <u>not</u> recommended in the U.S. due to high levels of influenza resistance

	Oseltamivir (Tamiflu®)	Zanamivir (Relenza®)
Effective for both Influenza A & B	Yes	Yes
Administration	Oral	Inhaled
Treatment age	<u>></u> 1 y.o.	<u>></u> 7 y.o.
Treatment dosing frequency	Twice daily	Two inhalations twice daily
Prophylaxis age	<u>></u> 1 y.o.	<u>></u> 5 y.o.
Prophylaxis dosing frequency	Once daily	Two inhalations once daily

Consider for treatment with antiviral medicines

- Any person with a potentially life-threatening influenza-related illness
- Persons with laboratory-confirmed influenza who are hospitalized, who have influenza pneumonia, who have bacterial co-infection, or who are at higher risk for influenza complications.
- Persons presenting to medical care within 48 hours of influenza illness who want to decrease the duration or severity of their symptoms and reduce transmission of influenza to others

Consider for antiviral chemoprophylaxis while influenza is circulating in the community

- Persons at high risk of serious complications during the 2 weeks after influenza vaccination
- Persons at high risk of serious complications for whom influenza vaccine is contraindicated
- Persons at high risk of serious complications, their family members, close contacts, and health-care workers when circulating strains of influenza virus in the community are not well-matched with vaccine strains
- Persons with immunosuppressive conditions who are not expected to mount an adequate antibody response to influenza vaccine.
- Heath-care workers with direct patient care responsibilities who have not been vaccinated
- Unvaccinated staff and residents during an institutional influenza outbreak
- High risk children under 9 years old after receiving influenza vaccine for the first time until 2 weeks after the second vaccine dose

Length of Antiviral Treatment and Chemoprophylaxis

	Treatment	Chemoprophylaxis Length		
	Length	After	Institutional	After vaccine*
		exposure	outbreak	
Oseltamivir	5 days	7 days	Minimum of 2	2 weeks
(Tamiflu®			weeks or until	
			outbreak over	
Zanamivir		10 days	Not proven	2 weeks
Relenza®)			effective for	
			nursing home	
			residents	

^{*} If antiviral prophylaxis is desired for high-risk individuals during the time immunity is developing. N/A

Pediatric Points

- Children 6 months-8 years old who have never had an influenza vaccine need 2 doses of influenza vaccine, > 1 month apart to be optimally protected.

 Therefore, if a high-risk child is vaccinated when there is influenza in the community, antiviral prophylaxis may need to be continued for 6 weeks for optimal protection.
- For pediatric antiviral use where no liquid formulation is available, open the capsule or crush the tablet, and give the appropriate dose in cherry syrup.

ANTIVIRAL MEDICINES FOR INFLUENZA Oseltamivir (Tamiflu®)

- Treatment and prophylaxis of both influenza A & B in > 12 months old.
- Treatment: 75 mg PO twice daily for 5 days.
 - o Pediatric treatment dosing based on weight: ≤ 15 kg, 30 mg BID; >15-23 kg, 45 mg BID; >23-40 kg, 60 mg BID; >40 kg, 75 mg PO BID
- Prophylaxis: 75 mg PO once daily
 - o Pediatric prophylaxis dosing based on weight: \leq 15 kg, 30 mg BID; >15-23 kg, 45 mg BID; >23-40 kg, 60 mg BID; >40 kg, 75 mg PO BID
- Comes as 75 mg tablet and 60 mg/5 ml suspension
- Side effects: nausea & vomiting; new FDA precaution (as of 11/06/06) concerning reports of unusual behavior occurring while on oseltamivir (primarily in children) with confusion, delirium, or self-injury
- Reduce adult dose to 75 mg every other day when CrCl 10-30 ml/min **Zanamivir (Relenza®)**
- For both influenza A & B: Treatment in \geq 7 y.o.; prophylaxis in \geq 5 y.o.
- Comes as an inhaher
- Contains lactose
- Inhalation (10 mg) twice daily for 5 days.
- Side effects: Bronchospasm
- Not recommended for treatment or prophylaxis in person with underlying airways disease

For more detailed information about each antiviral medication, see: www.cdc.gov/flu/professionals/treatment